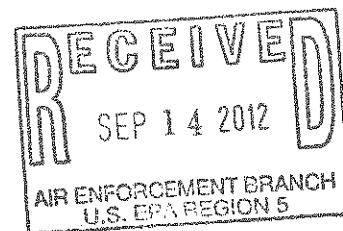


Appendix B

SA



**Blu Sky Solutions**

Blu Sky Solutions does not manufacture, formulates or creates Blue Sky 22a

Answer to Question 1. Provided by Kevin Hale

Enviro-Safe Refrigerants, Inc  
400 Margaret Street  
Pekin, IL 61554

The supplier for Blue Sky 22a

Answer to Question 3. Provided by Kevin Hale

22a is marketed within the US as a second generation substitute for an ozone depleting substance, therefore 22a does not fall under the Clean Air SNAP regulations.

Answer to Question 4. Provided by Kevin Hale

Total Sales for Blue Sky 22a Cylinders & Cans- \$3,169.58

Answer to Question 5. Provided by Kevin Hale from Internet Sales

Copies of Internet Pages for Blue Sky 22a – See attachment

Answer to Question 6. Provided by Kevin Hale

(MSDS) Material Safety Data Sheet for Blue Sky 22a – See attachment

Answer to Question 7. Provided by Kevin Hale

There are no Blue Sky 22a containers as of 9-7-2012 awaiting sale to customers

Answer to Question 8. Provided by Kevin Hale

I certify under penalty of law that I have examined and am familiar with the information in the enclosed documents, including all attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are, to the best of my knowledge and belief, are true and complete. I am aware that there are significant penalties for knowingly submitting false statements and information, including the possibility of fines or imprisonment pursuant to Section 113(c)(2) of the Clean Air Act and 18 U.S.C. 1001 and 1341

Kevin Hale

A handwritten signature in black ink, appearing to read "Kevin Hale", written over a horizontal line.

Date 9-10-2012

Question 7

# MATERIAL SAFETY DATA SHEET

Blue Sky 22a Refrigerant 30 & 50 lb Cylinder

**3E - TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER**

**1-855-266-5077 Account #13624**

## **SECTION 1 – IDENTIFICATION**

**Company:** Blu Sky Solutions Inc.  
2516 Waterville Drive  
Champaign IL 61822

**Product Name:** Blue Sky 22a Refrigerant

**Proper Shipping Name:** Petroleum Gases Liquefied

**UN Number:** UN1075

**Dangerous Goods Hazard Class/Division:** 2.1

## **SECTION 2 – PHYSICAL DESCRIPTION AND/OR PROPERTIES**

**Appearance/Odor:** Clear, Colorless; odor added

**Physical State:** Gas

**Specific Gravity:** 0.5066

**Evaporation Rate:** Rapid

**Boiling Point:** -44.5°F

**pH:** N/A

**Odor Threshold:** None available

**Coeff. Water/Oil Dist.:** <1

**Freezing Point:** -305°F

**Vapor Density:** (est.) 1.52

**Vapor Pressure:** (PSIG) 70 @ 110°F

## **SECTION 3 – FIRE OR EXPLOSION HAZARD**

**Auto Ignition Temperature:** 873°F

**Lower Flammable Limit (LEL):** 2.15%

**Flashpoint:** Not Available

**Upper Flammable Limit (UEL):** 9.60%

**Extinguish Media:** If possible, stop flow of gas. Use water to cool fire-exposed tanks, surroundings and to protect personnel working on shut off. Water spray, dry powder, or carbon dioxide can be directed at flame area to reduce fire intensity. Do not extinguish flames unless leak can be stopped.

**Hazardous Combustion Products:** Normal combustion forms carbon monoxide.

**Sensitivity to Static Discharge:** Vapor may ignite if exposed to static discharge.

**Explosion Data:** Sensitivity to impact. Mixture is not sensitive.

**Fire and Explosion Hazard:** Flammable vapor may form if allowed to mix with air. Accumulation of gas is an ignition hazard. Vapors are heavier than air and may travel to an ignition source.

#### **SECTION 4 – INGREDIENTS**

**Hazardous Ingredients:** Alkanes      %: 100      **LD50:** n.ap.  
**P.E.L.** 800 ppm      **ACGIH TLV UNITS:** 800 ppm  
(Blue Sky Refrigerant contains a trade secret odor of 1% -5% unless otherwise noted.)

#### **SECTION 5 – REACTIVITY DATA**

**Chemical Stability:** This material is chemically stable.

**Conditions To Avoid:** Avoid sparks, open flame or any source of ignition.

**Incompatible Materials:** Avoid contact with strong oxidizing agents such as chlorine, permanganates and dichromate's.

**Decomposition Products:** This product may produce carbon monoxide with a deficiency of oxygen.

**Hazardous Polymerization:** will not occur.

**Polymerization To Avoid:** Keep separate from oxidizing agents.

#### **SECTION 6 – HEALTH HAZARD**

As with most flammable products, hydrocarbon refrigerants demand basic common sense during use.

**Inhaled/Asphyxiant:** This product may cause irritation of the respiratory tract. May also cause headaches or dizziness at moderate exposures. Heavy exposure may cause anemia and irregular heart rhythm, respiratory arrest and death at elevated exposures.

**Ingestion:** Not likely to occur.

**Eye Contact:** Irritating if the liquid gets into eyes, with a possible hazard from freezing due to rapid evaporation. Extremely high vapor concentration may also be irritating.

**Skin Contact:** Exposure to rapidly expanding gas or vaporizing liquid may cause frost damage to tissue. Prolonged contact may irritate the skin and cause dermatitis.

**Chronic:** Prolonged exposure to this product may cause central nervous system disorder and or damage.

#### **SECTION 7 - FIRST AID**

**Inhaled:** In emergency situations, use proper respiratory protection and immediately remove the victim to fresh air. Administer artificial respiration if breathing has stopped. Seek medical attention promptly in serious cases of over exposure.

**Eyes:** Flush eyes with tepid water for 15 minutes. Seek immediate medical advice immediately.

**Skin:** Avoid skin contact with the liquid. Remove contaminated clothing and wash the exposed area with soap and water.

**Frostbite:** Obtain medical assistance. If medical assistance is not available immediately, place person in a warm area as soon as possible and allow the injured area to warm gradually. **DO NOT WARM EXPOSED AREA TO EXCESS HEAT OR COLD.**

**Ingestion:** Unlikely to be a problem, this should not occur.

## **SECTION 8 - SAFE HANDLING**

**Spills:** Shut off ignition source and source of leak. Evacuate all non-essential personnel from the area. If possible, ventilate the area. Use water spray to disperse vapors. Isolate and ventilate area until gas has dispersed. If the incident is significant seek assistance from local fire, police and other relevant authorities.

**Waste Disposal Method:** Dispose of product in accordance with local, county state, and federal regulations.

**Storage, Handling, Shipping:** Store in a cool, well-ventilated area. Store away from strong oxidizing agents, chlorine dioxide, excessive heat and/or static discharge. Cylinders must be stored and transported in an upright position.

**Other Precautions:** Empty containers may contain flammable or combustible vapors. Do not reuse without adequate precautions.

## **SECTION 9 -PERSONAL PROTECTION**

**Engineering Controls:** Use only in a well ventilated area! Ensure there is good ventilation. If additional ventilation is needed use auxiliary ventilation equipment ensuring that all systems are well grounded and spark proof.

**Eyes:** Wear safety chemical safety glasses with side shields and/or goggles.

**Gloves:** Use thermal, chemical resistant gloves when handling this product.

**Other protective clothing:** Long sleeves, pants and close-toed shoes.

**Respiratory Protection:** If ventilation of the area is not adequate use a NIOSH approved respirator to prevent overexposure by inhalation.

## **SECTION 10 -PREPARATION**

BluSky Solutions Inc. 2516 Waterville Drive Champaign Illinois

All information provided for this MSDS sheet by Blu Sky Solutions Inc. is offered in good faith and is believed to be accurate to the best knowledge of the preparation analyst. The information contained in this document is based on documentation provided by the supplier and other documentation/information available at the date of preparation.

BluSky Solutions Inc. does not guarantee the accuracy of this document and this information is offered without warranty, guarantee or liability on the part of the preparation analyst in good faith.

Question 6

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## Blue Sky 22a Refrigerant

**Sale Price: \$146.62**

Compared at: \$201.67

You Save: \$55.05

Product ID : 22a 30lb

1 review(s)

[E-mail to a friend](#)

Hazmat Fee Included in Sale Price

Hazmat (+\$6.67)

**Buy 3 - 60 and get free shipping**

Quantity

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## Description

## Not for use in R410a systems

Most home A/C units use R22 refrigerant, Please check specs on A/C before ordering Blue Sky 22a Refrigerant. \* In the USA only, Blue Sky 22a is sold as a second generation replacement for R407c, R404a and MO99. Outside the US, Blue Sky 22a is sold as an R22 replacement. Blue Sky 22a refrigerant is a premium grade product that's all-natural, non ozone depleting material and nil global warming potential. Our refrigerant is organic with no impurities and is classified as a pharmaceutical grade product.

Blue Sky Refrigerant 30 lb cylinder tank holds 12lbs of refrigerant and is equivalent to 30lbs of traditional R22.

Blue Sky Refrigerant 50lb cylinder tank holds 20lbs of refrigerant and is equivalent to 50 lbs of R22.

Every ounce of Blue Sky refrigerant is equivalent to 2.5 ounces of R22a.

Blue Sky 22a refrigerant is more efficient and lighter than CFC and HFC products so your usage will be less. Please see below for the equivalencies

Compatibility - Blue Sky refrigerants are compatible with a majority of refrigeration materials, metal components, seals, gaskets, hoses, o-rings and compressors. Our refrigerants are also compatible with mineral and synthetic (Ester and PAG) lubricants.

## Additional Information

Blue Sky refrigerants differ from other Hydrocarbons as our premium blended product does not contain the rotten egg or sulfur smell. Other companies add Mercaptin for odor and its made from sulfur, when sulfur is introduced to moisture it becomes an acid. Blue Sky refrigerants contain a pleasant pine smell to assist consumers in leak detection. Blue Sky refrigerants are earth friendly and non-ozone depleting, our refrigerants are completely safe for the environment!

## Guarantee

Blue Sky refrigerants will not harm air conditioning, compressors or other related mechanical equipment when used in accordance with Blue Sky directions.

## Safety

Blue Sky refrigerants DO NOT become caustic when contaminated with moisture or oxygen. Our refrigerants are NON-TOXIC, NON-CARCINOGEN, auto ignition temperature above 1385F. There have been NO long term health risks attributed to Blue Sky Refrigerants.

## Savings

Blue Sky refrigerant customers often see considerable energy savings, our product allows your system to operate with less head pressure and have recorded energy savings up to 40% over HFC134a

## International Standards

Blue Sky 22a Replacement Refrigerant also meets international standards such as—ISO 5149, BS 4434-1995, AS/NZS 1677 and ASHRAE 5149